

# Biocontrol News and Information

1990 Annual Indexes

Volume 11



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## Biocontrol News and Information

is a quarterly journal of news items, review articles  
and abstracts from the CAB ABSTRACTS database prepared by the  
**INTERNATIONAL INSTITUTE OF BIOLOGICAL CONTROL (IIBC)**

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# Biocontrol News and Information

1990

Volume 11

## Annual Indexes

Prepared by

International Institute of Biological Control

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# Biocontrol News and Information

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## LANGUAGE ABBREVIATIONS

An initial capital denotes the language of the paper; an initial small letter, the language of the summary.

Af	Afrikaans	Fi	Finnish	Nl	Dutch
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Az	Azerbaijani	He	Hebrew	Pl	Polish
Be	Byelorussian (White Russian)	Hu	Hungarian	Pt	Portuguese
Bg	Bulgarian	Ia	Interlingua	Ro	Romanian
Ch	Chinese	In	Indonesian	Ru	Russian
Ch	Chinese	Is	Icelandic	Sh	Serbo-Croat (either Latin or Cyrillic script)
Cs	Czech	It	Italian	Sk	Slovak
Da	Danish	Ja	Japanese	Sn	Slovene
De	German	Ko	Korean	Sv	Swedish
Ee	Estonian	La	Latin	Ta	Tajik
En	English	Li	Lithuanian	Tr	Turkish
Eo	Esperanto	Lv	Latvian	Uk	Ukrainian
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Many other serials were scanned during 1990 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSN's and publishers' addresses.

- Abhandlungen und Berichte des Naturkundemuseums Görlitz  
 Acarologia  
 ACIAR Technical Reports Series  
 Acta Agriculturae Universitatis Jilinenis  
 Acta Arachnologica  
 Acta Biologica Hungarica  
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 Acta Ecologica Sinica  
 Acta Entomologica Bohemoslovaca  
 Acta Entomologica Chilena  
 Acta Entomologica Fennica  
 Acta Entomologica Jugoslavica  
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 Acta Horticulturae  
 Acta Hydrochimica et Hydrobiologica  
 Acta Mycologica  
 Acta Oecologica, Oecologia Applicata  
 Acta Oecologica, Oecologia Generalis  
 Acta Phytopathologica et Entomologica Hungarica  
 Acta Phytophylactica Sinica  
 Acta Protozoologica  
 Acta Scientiarum Naturalium Universitatis Sunyatseni  
 Acta Universitatis Agriculturae, Facultas Agronomica  
 Acta Zoologica Hungarica  
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 Actividades en Turrialba  
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 Anales de la Sociedad Científica Argentina  
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 Annales de Limnologie  
 Annales de Parasitologie Humaine et Comparée  
 Annales Entomologici Fennici  
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 Annales Zoologici  
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 Annual Review of Microbiology  
 Annual Review of Phytopathology  
 Annuario dell'Istituto e Museo di Zoologia dell'Università di Napoli  
 Antonie van Leeuwenhoek  
 Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz  
 Applied Agricultural Research  
 Applied and Environmental Microbiology  
 Applied Entomology and Zoology  
 Applied Microbiology and Biotechnology  
 Aquatic Botany  
 Arab and Near East Plant Protection Newsletter  
 Arab Journal of Plant Protection  
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 Archiv für Phytopathologie und Pflanzenschutz  
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 Archives Roumaines de Pathologie Expérimentale et de Microbiologie  
 Arroz en las Américas  
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 ASM News  
 Australasian Plant Pathology  
 Australian Entomological Magazine  
 Australian Journal of Biotechnology  
 Australian Journal of Ecology  
 AVRDC Publication, Asian Vegetable Research and Development Center  
 Bangladesh Journal of Zoology  
 Behavioral Ecology and Sociobiology  
 Behaviour  
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 Beiträge zur Entomologie  
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 Bollettino dell'Istituto di Entomologia della Università degli Studi di Bologna  
 Bollettino della Società Entomologica Italiana  
 Bollettino di Zoologia Agraria e di Bachicoltura  
 Botanica Helvetica  
 Brasil Florestal  
 Brenesia  
 British Reports, Translations and Theses  
 Buletinul de Protecția Plantelor  
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 Bulletin de la Société Entomologique de France  
 Bulletin de la Société Zoologique de France  
 Bulletin OEPP

- Bulletin of Endemic Diseases  
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 Bulletin of the Entomological Society of America  
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 Experientia  
 Experimental & Applied Acarology  
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 Extension Bulletin - ASPAC Food and Fertilizer Technology Center for the Asian and Pacific Region  
 FABIS Newsletter  
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 Fauna Norvegica, B  
 Fauna of New Zealand  
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 Field Studies  
 Fitopatologia Brasileira  
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 Forest Research  
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 Gigena i Sanitariya  
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 Gorskostopanska Nauka  
 Grøn Viden, Landbrug  
 Great Lakes Entomologist  
 Groenten en Fruit  
 Gujarat Agricultural University Research Journal  
 Handbooks for the Identification of British Insects  
 Hassadeh  
 Highlights of Agricultural Research, Alabama Agricultural Experiment Station  
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 Hindustan Antibiotics Bulletin  
 Honeybee Science  
 IDESA  
 Index to Theses Accepted for Higher Degrees in the Universities of Great Britain and Ireland  
 Indian Botanical Reporter  
 Indian Coconut Journal (Cochin)  
 Indian Coffee  
 Indian Forester  
 Indian Journal of Agricultural Research  
 Indian Journal of Agricultural Sciences  
 Indian Journal of Ecology  
 Indian Journal of Entomology  
 Indian Journal of Experimental Biology  
 Indian Journal of Forestry  
 Indian Journal of Malariology  
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 Indian Journal of Nematology  
 Indian Journal of Plant Pathology  
 Indian Journal of Plant Protection  
 Indian Sugar  
 Indian Veterinary Journal  
 Information Bulletin - Citrus and Subtropical Fruit Research Institute  
 Information Report - Forest Pest Management Institute, Canadian Forestry Service  
 Information Report - Newfoundland Forestry Centre, Canadian Forestry Service  
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 Information Series - Virginia Polytechnic Institute and State University, College of Agriculture and Life Sciences



- Informatore Agrario  
 Informatore Fitopatologico  
 Informe de Investigación, División de Ciencias Agropecuarias y Maritimas, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico  
 Insect Biochemistry  
 Insect Knowledge  
 Insect Science and its Application  
 Insectes Sociaux  
 International Arachis Newsletter  
 International Journal of Acarology  
 International Journal of Insect Morphology and Embryology  
 International Journal of Invertebrate Reproduction and Development  
 International Journal of Tropical Plant Diseases  
 International Nematology Network Newsletter  
 International Pigeonpea Newsletter  
 International Rice Research Newsletter  
 Invertebrate Taxonomy  
 Investigación Agraria, Producción y Protección Vegetales  
 Iranian Journal of Public Health  
 ISI Atlas of Science, Animal & Plant Sciences  
 Israel Journal of Entomology  
 Italia Agricola  
 Izvestiya Akademii Nauk Kazakhskoi SSR, Biologicheskaya  
 Izvestiya Akademii Nauk Tadzhikskoi SSR, Biologicheskikh Nauk  
 Izvestiya Akademii Nauk Turkmenkoi SSR, Biologicheskikh Nauk  
 Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR, Biologicheskikh Nauk  
 Japanese Journal of Applied Entomology and Zoology  
 Japanese Journal of Entomology  
 JARQ, Japan Agricultural Research Quarterly  
 Jiangsu Journal of Agricultural Sciences  
 Journal of Advanced Zoology  
 Journal of Agricultural Entomology  
 Journal of Agricultural Research (Lahore)  
 Journal of Agricultural Research of China  
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 Journal of Agriculture of the University of Puerto Rico  
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 Journal of Aphidology  
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 Journal of Applied Entomology  
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 Lesnicky Časopis  
 Letters in Applied Microbiology  
 Leucaena Research Reports  
 Lucrări Științifice, Institutul Agronomic Timișoara, Agronomie  
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 Madras Agricultural Journal  
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 Malayan Nature Journal  
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 Material und Organismen  
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 Micologia Neotropica Aplicada  
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 Microbiological Sciences  
 Microbiology  
 Microbiology (China)  
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 Mikologiya i Fitopatologiya  
 Mikrobiologicheskii Zhurnal  
 MIRCEN Journal of Applied Microbiology and Biotechnology  
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 Taiwan Shengli Bowuguan Banniankan  
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 Trudy Gosudarstvennogo Nikitskogo Botanicheskogo Sada  
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# CAB INTERNATIONAL INFORMATION SERVICES PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

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The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

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### Veterinary Science and Parasitic Diseases

*Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.*

### Crop Science and Production

*Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Sugar Industry Abstracts; Wheat, Barley & Triticale Abstracts.*

### Forestry

*Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.*

### Crop Protection

*Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.*

### Economics, Development and Sociology

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*Agricultural Engineering Abstracts.*

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### The Organization

CAB International (CABI) is an international, inter-governmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

### Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature (ca 10,000 serials and over 5,000 other publications annually) for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

- Agricultural Economics
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- Animal Health
- Dairy Science & Technology
- Nutrition
- Pastures & Field Crops
- Crop Protection
- Horticulture & Plantation Crops
- Plant Breeding & Genetics
- Soils
- Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services world-wide (see inside back cover for details).

### Scientific Services

CABI's Scientific Services consist of four institutes and two support services:

*CAB International Institute of Entomology (CIE)*, Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

*CAB International Mycological Institute (CMI)*, Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

*CAB International Institute of Parasitology (CIP)*, Director Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

*CAB International Institute of Biological Control (CIBC)*, Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

*Development Services, (CDS)*, Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

*Library Services*, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

### Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and information retrieval and PAGER for typesetting.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

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